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## NOTES AND NEWS.

THE twentieth meeting of the Association was called to order by Vice-President Long in Room 107, Thaw Hall, University of Pittsburgh, on Saturday, March 22. After a hearty address of welcome by the Chancellor of the University, Dr. S. B. McCormick, the topic of the morning, "What Mathematical Subjects Should be Included in the Curriculum of the College," was presented by Prof. G. H. Hallett, of the University of Pennsylvania. The same subject was continued by Prof. F. J. Holder, of the University of Pittsburgh, and by Prof. C. C. Guthrie, of the Medical School. The frequent applause showed the appreciation of those present. No resumés of these papers are given as they are to be published. The topic was discussed by Professor Wilson, Professor Eiesland, Professor Hallett, and Dean Metzler.

The report of the Committee on Testing the Results of Geometry Teaching was presented by Mr. Morrison. It is an excellent report and, when available through *THE TEACHER*, is worth serious study. The report of the Committee on Affiliation was given by Dean Metzler. It appears now that the project will be carried through and a strong association of eastern mathematics teachers will be formed.

Luncheon was served by the University at the University Club to those present at the meeting. At the close of the luncheon the Chancellor added to his welcome of the morning and the Secretary responded for the Association.

At the opening of the afternoon session the question of "The Comprehensive Examination for Admission to College" was presented in papers read by Prof. A. H. Wilson, of Haverford College, and Principal J. N. Rule, of the Central High School of Pittsburgh. Mr. F. Eugene Seymour, Dr. Metzler, Mr. H. F. Hart, Professor Wilson, and Mr. Morrison spoken in discussion. The general theory of the examination was approved but it was felt that many serious difficulties lay in the way of its proper execution. Among these the chief one seemed to be the difficulty of avoiding cramming.

The program was closed by papers by Professor Eiesland, of the University of West Virginia, Mr. H. F. Hart, of the Montclair High School, Mr. E. H. Koch, Jr., of Pratt Institute, and Mr. F. Eugene Seymour, of the New Jersey State Normal School on "The Comprehensive Examination in the Teaching of Mathematics." Time did not permit of the discussion of these papers. After the adoption of resolutions (printed elsewhere) the meeting adjourned.

HOWARD F. HART,  
*Secretary.*

THE sixth annual dinner of the Philadelphia Section was held on Saturday evening, February first, in the Palm Room of the Hotel Walton. Covers were laid for seventy-five. The President of the Section, Maurice J. Babb, was toastmaster.

The after-dinner speakers were Dr. William A. Graunlle, President of Pennsylvania College, Gettysburg; Miss Katharine E. Puncheon, of the Philadelphia High School for Girls; Dr. Fletcher Durell, of the Lawrenceville School; Dr. Arthur Quinn, Dean of the College of the University of Pennsylvania.

The evening proved to be one of much pleasure and profit.

THE Rochester Section has held two meetings during the current college year. The thirteenth meeting of the Section was held at the Lafayette High School in Buffalo, N. Y., in affiliation with the New York State Teachers' Association on November 26, 1912. About fifty-five teachers attended the meeting. The program was as follows:

"A Definition of Trilinear Co-ordinates," by Wilfred H. Sherk, Lafayette High School, Buffalo.

"Graphical Methods used in the Secondary Schools of Germany," by S. Douglas Killam, the University of Rochester.

"Class Room Treatment of Original Exercises in Plane Geometry," by Harry N. Kenyon, East High School, Rochester.

"Complex Numbers in Secondary Mathematics," by Arthur S. Gale, the University of Rochester.

The annual election of officers resulted as follows: Chairman, William P. Durfee, Hobart College, Geneva; Secretary, Arthur S. Gale, the University of Rochester; Executive Committee, Miss Mary M. Wardwell, Central High School, Buffalo; William

L. Vosburgh, Brockport State Normal School; Harry N. Kenyon, East High School, Rochester.

The fourteenth meeting was held at Hobart College, Geneva, N. Y., on March 15, 1913. There was an attendance of over twenty, and those attending the meeting were entertained by Hobart College at a luncheon served at Hotel Seneca.

Owing to the absence of two of the four speakers announced, one of these absences being due to illness, but two papers were read, namely:

"Some Applications of Trigonometry," by Charles W. Watkeys, the University of Rochester.

"The Results obtained in Germany by the International Commission on the Teaching of Mathematics," by William Betz, East High School, Rochester.

In the forenoon there was an informal discussion of some topics in elementary algebra.

The vacancy in the executive committee caused by the removal to Boston, Mass., of William L. Vosburgh was filled by the election of Miss Eunice M. Pierce, of Lockport.

THE spring meeting of the Association of Mathematical Teachers in New England was held at Massachusetts Institute of Technology, on Saturday, May 3, 1913, with the following program:

"Originals in Geometry," Harry B. Marsh, Technical High School, Springfield; "Certain Classroom Devices in Algebra," A. Harry Wheeler, English High School, Worcester; "A Method of Extracting the Square Root of Numbers," Bertram C. Richardson, English High School, Boston; Discussion. "Efficiency *vs.* the Individual," Prof. L. M. Passano, Massachusetts Institute of Technology; "Mathematics for Technical and Manual Training High Schools," Frederick W. Gentleman, Mechanic Arts High School, Boston; Discussion.

#### FOREIGN SPEAKERS TO BE HEARD AT THE BUFFALO CONGRESS.

Among the prominent speakers expected at the Fourth International Congress on School Hygiene at Buffalo the last week in August, according to Secretary General Dr. Thomas A. Storey, of the College of the City of New York, are the following notable delegates from abroad:

Professor H. Griesbach of Mulhausen, Alsace, Germany, founder of these international congresses and president of the first congress held in Nuremburg in 1904.

Dr. L. Dufestel of Paris, France, medical inspector of the Paris schools, and secretary-general of the Third International Congress on School Hygiene.

Dr. James Kerr of London, England, member of the London County Council, for many years an active leader in the field of medical inspection.

Dr. Otto Grennes of Christiania, Norway, organizer of the statistical exhibit, department of education, for the Norway Centenary Exhibition in 1914.

Dr. Ernesto Cacace of Naples, Italy, professor in pediatry, Royal University of Naples.

Professor L. V. Liebermann of Budapest, Hungary, professor hygienic institute, Royal University of Budapest.

Dr. R. Kaz of St. Petersburg, Russia, consulting and school oculist.

Dr. Frederick Lorentz of Berlin, Germany, member of the Society for School Hygiene, Berlin Teachers.

Dr. W. Weichardt of Erlangen, Germany, bacteriological research laboratory.

Dr. J. Bayerthal of Worms, Germany.

Dr. J. Brandau of Cassell, Germany.

Dr. Marx Lobsien of Kiel, Germany.

Dr. Theodore Altschul of Prague, Germany, sanitary inspector.

Dr. D. E. Jessen of Strassburg, Germany, International Commission on Mouth Hygiene.

Dr. Cornelio Budinich of Trieste, Austria, architect.

Dr. Mathilde Gstettner of Vienna, Austria, assistant oculist, Vienna Polyclinic High School teacher, and secretary Austrian School Hygiene Association.

Dr. Leo Burgerstein, professor of the Royal University of Vienna, Austria.

Dr. R. H. Crowley of Bradford, England, Board of Education.

Dr. Cecil Reddie of the New School, Abbottsholme, England.

Dr. M. C. Schuyten of Antwerp, Belgium, professor of the New College, Brussels.

Dr. Albin Lenhardtson of Stockholm, Sweden, director of municipal school, dental clinic.

Dr. Hansen Hakonson of Trondhjem, Norway, head master, school hygiene.

Dr. Daumegon, director of health department, city of Narbone, France.

THE International Commission on the Teaching of Mathematics made its report at the Fifth International Congress of Mathematicians at Cambridge, England, in August. Reports were recieved from eighteen countries, and 150 separate reports were submitted. About fifty more are now in process of preparation, and others are contemplated by various countries. The Central Committee, consisting of Professor Klein (Göttingen), Sir George Greenhill (London), and Professor H. Fehr (Geneva), with Professor David Eugene Smith (New York) added, was continued in office for another period of four years. The American reports have been completed and may be obtained gratis by application to the Bureau of Education, Washington, D. C. It is probable that one or more reports, summarizing the large features of the reports of all other countries, will be prepared by the American Commission during the next four years, and that certain other special lines of work will be undertaken. The Central Committee contemplates holding three international conferences on teaching, the first in France in 1914, the second in Germany in 1915, and the third, with the next Congress, in Stockholm in 1916.

THE *American Mathematical Monthly* for April has the following table of contents:

"Some Things We Wish to Know," by E. R. Hedrick.

"History of the Logarithmic and Exponential Concepts," by Florian Cajori.

"Some Inverse Problems in the Calculus of Variations," by E. J. Miles.

"The Probability Integral Deduced by Means of Developments in Finite Form," by E. L. Dodd.

"Western Meetings of Mathematicians," by H. E. Slaught.

Book Reviews. Problems and Questions. Notes and News.